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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,411	01/03/2006	Juergen Weisser	OEH-217/500814.20119	4554
26418 REED SMITH,	7590 12/23/200 LLP	EXAMINER		
ATTN: PATEN	T RECORDS DEPAR	NGUYEN, HUNG D		
599 LEXINGTON AVENUE, 29TH FLOOR NEW YORK, NY 10022-7650			ART UNIT	PAPER NUMBER
			3742	
		MAIL DATE	DELIVERY MODE	
			12/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/563,411	WEISSER ET AL.				
		Examiner	Art Unit				
		HUNG NGUYEN	3742				
Period f	The MAILING DATE of this communication aportion or Reply	ppears on the cover sheet with the c	correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
	Poenoneivo to communication(s) filed on 00	Sontombor 2000					
·	Responsive to communication(s) filed on <u>09 September 2009</u> . This action is FINAL . 2b) This action is non-final.						
3)	/						
ت (۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under Lx pane Quayle, 1935 C.D. 11, 455 C.G. 215.							
Disposit	ion of Claims						
4)🖂	4) Claim(s) 7-11 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)🛛	6) Claim(s) 7-11 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/	or election requirement.					
Applicat	ion Papers						
9)🖂	The specification is objected to by the Examir	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the corre	- · · ·	• •	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ·	under 35 U.S.C. § 119						
12)🔯	Acknowledgment is made of a claim for foreig	in priority under 35 U.S.C. § 119(a))-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:							
,	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmer	nt(s)						
_	ce of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal F 6) Other:	atent Application				

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DETAILED ACTION

Specification

1. The amendment filed 9/9/2009 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: "WLF is the absolute value of the thermal conductivity".

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 3. Claims 7-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
- 4. In claim 7, the recitation of " $I = 8 \times d \times 24 /WLF$ " at line 14 renders the claim indefinite since it is unclear how to calculate the beam spot length based on the formula. The unit of d is millimeter, WLF is W/mK (W is Watt, m is in millimeter and K is a unit

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increment of temperature in Kelvin unit). The problem is that from a scientific unit perspective the length unit must be in millimeter or another length unit (e.g. centimeter or inch). In fact, the actual units of length "I" is "mm/ (W/mK)" or "mm x mm x K /watts" which is not a distance. Therefore, the equation is always indefinite. Clarification is needed.

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- 5. As best understood, since the claimed scopes are uncertain due to the enablement, patentable subject matters here by can not be determined.
- 6. Claims 7-11 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In claim 7, line 15 the claim recites "WLF is the absolute value of the thermal conductivity" which is not described in the specification.
- 7. Applicant's arguments filed 9/9/2009 have been fully considered but they are not persuasive. The applicant argued on page 7, line 19 of the REMARK, "However, as explained above in relation to the amendments to the Abstract and Specification, there was an error in the translation of the International Application that was used to draft the Substitute Specification in the current Application. In particular, the description and the claims of the International Application PCT/DE04/01490 (published as WO 2005/002779) states "... wobei ... WLF der Betrag der Warmeleitffihigheit ... ist ..."

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International Application, P. 12, Lns. 15-17; P. 14, Lns. 23-24. This phrase was incorrectly translated to "...WLF is the thermal conductivity ..." See Substitute Specification, ¶¶ [0027] and [0047], Abstract; Preliminary Amendment, Claim 7. The correct translation reads: "WLF is the absolute value of the thermal conductivity". Accordingly, the Abstract, Specification, and Claim 7 were amended to correct this error. As such, in relation to the formula above, Claim 7 now states that "...WLF is the absolute value of the thermal conductivity of the ceramic to be split ... "Since "WLF" is an absolute value, there is no unit of measurement associated with the "WLF" of the referenced formula. This means that the only unit of measurement on the right side of the referenced formula is that of the thickness "d" of the ceramic workpiece to be split, which is a must be a unit of length. This matches the unit of measurement on the left side of the, which, as discussed above, is also a unit of length. Thus, Applicants respectfully assert that formula of Claim 7 is now both enabled and definite". It is found not persuasive. There is not enough evidence to prove that there is an error during the translation to amend the Abstract, the specification, and the claim 7. As an evidence shown in Par. 38 and 48, the WLF unit is W/(mK) or watt/(meter x degree Kelvin) for glass and a ceramic plate or zirconium oxide.

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8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG NGUYEN whose telephone number is (571)270-7828. The examiner can normally be reached on Monday-Friday, 9M-6PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on (571)272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HUNG NGUYEN/ Examiner, Art Unit 3742 12/1072009 /Quang T Van/ Primary Examiner, Art Unit 3742